

## Attachment A: Disposal Options for Specific Chemicals

This table provides information on hazard and disposal options for common chemicals encountered in Indiana University laboratories, and applies to all campus locations. The first column lists the chemical name and percent concentration by volume, when applicable. The second column indicates whether the chemical poses a hazard that requires special handling for disposal. Follow the in-lab reduction methods outlined in [Section 4](#) for acid-base neutralization and sewer disposal in the *Disposal Option* column. Water-soluble solids are marked “SEWER ACCEPTABLE” when sewer disposal is preferable over trash. However, these materials are also acceptable for trash, as long as they are in sound, closed containers. Insoluble solids should always be disposed in the trash, and are marked as “TRASH ACCEPTABLE”. **Do not put liquids in the trash.**

If disposal option states “EHS”, that chemical must be disposed through your campus waste collection program. IUEHS will collect any chemical waste for off-site disposal or recycling as needed. The last column indicates whether or not chemically contaminated items (CCI’s) contaminated with that specific chemical can be disposed in the regular trash. This includes spill debris.

**Note:** *If you intend to dispose of more than one liter (liquids) or five pounds (solids) of any one of these chemicals, call IUEHS for your respective campus for further evaluation.*

CHEMICAL NAME, % CONCENTRATION	HAZARD?	DISPOSAL OPTION	CCI TO TRASH?
Acetaldehyde	YES	EHS	NO
Acetic Acid, >10%	YES	EHS	NO
Acetic Acid, <10%	YES	SEWER ACCEPTABLE	YES
Acetic Anhydride	YES	EHS	NO
Acetone	YES	EHS	NO
Acetonitrile	YES	EHS	NO
Acetyl Chloride	YES	EHS	NO
Acrolein	YES	EHS	NO
Acrylamide	YES	EHS	NO
Acrylonitrile	YES	EHS	NO
Agar	NO	SEWER ACCEPTABLE	YES
Albumin	NO	SEWER ACCEPTABLE	YES
Alfatoxins	YES	EHS	NO
Aluminum ammonium sulfate	NO	SEWER ACCEPTABLE	YES

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
<b>Aluminum oxide</b>	NO	TRASH ACCEPTABLE	YES
<b>Aluminum potassium sulfate</b>	NO	SEWER ACCEPTABLE	YES
<b>Aluminum chloride</b>	YES	EHS	NO
<b>Amino acids</b>	NO	SEWER ACCEPTABLE	YES
<b>Ammonium acetate</b>	NO	SEWER ACCEPTABLE	YES
<b>Ammonium bicarbonate</b>	YES	EHS	NO
<b>Ammonium carbonate</b>	YES	EHS	NO
<b>Ammonium chloride</b>	NO	SEWER ACCEPTABLE	YES
<b>Ammonium citrate</b>	NO	SEWER ACCEPTABLE	YES
<b>Ammonium hydroxide</b>	YES	ACID/BASE NEUTRALIZATION	NO
<b>Ammonium lactate</b>	YES	EHS	NO
<b>Ammonium nitrate</b>	YES	EHS	NO
<b>Ammonium oxalate</b>	YES	EHS	NO
<b>Ammonium persulfate</b>	YES	EHS	NO
<b>Ammonium phosphate Monobasic</b>	NO	SEWER ACCEPTABLE	YES
<b>Ammonium phosphate Dibasic</b>	NO	SEWER ACCEPTABLE	YES
<b>Ammonium sulfamate</b>	YES	EHS	NO
<b>Ammonium sulfate</b>	NO	SEWER ACCEPTABLE	YES
<b>Ammonium sulfide solution</b>	YES	EHS	NO
<b>Amyl acetate</b>	YES	EHS	NO
<b>Amyl Alcohol</b>	YES	EHS	NO
<b>Aniline</b>	YES	EHS	NO
<b>Antimony salts and compounds</b>	YES	EHS	NO
<b>Antineoplastic drugs</b>	YES	EHS	NO
<b>Arsenic salts and compounds</b>	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Ascorbic acid	NO	SEWER ACCEPTABLE	YES
Barium salts and compounds	YES	EHS	NO
Basic fuschin	YES	EHS	NO
Benz(a) Anthracene	YES	EHS	NO
Benzene	YES	EHS	NO
Benzidine and based dyes	YES	EHS	NO
Benzoic acid	YES	EHS	NO
Benzoyl peroxide	YES	EHS	NO
Beryllium salts and compounds	YES	EHS	NO
Boric acid	YES	EHS	NO
Bouin's solution	YES	EHS	NO
Bromine	YES	EHS	NO
Bromoacetic acid	YES	EHS	NO
Bromophenol blue	NO	EHS	NO
Butanol	YES	EHS	NO
2-Butanone	YES	EHS	NO
Butyl acetate	YES	EHS	NO
Butyl methacrylate	YES	EHS	NO
Butylamine	YES	EHS	NO
Butyric acid	YES	EHS	NO
Cacodylic acid	YES	EHS	NO
Cadmium salts and compounds	YES	EHS	NO
Calcium borate	NO	SEWER ACCEPTABLE	YES
Calcium carbonate	NO	SEWER ACCEPTABLE	YES
Calcium chloride	NO	SEWER ACCEPTABLE	YES
Calcium citrate	NO	SEWER ACCEPTABLE	YES

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Calcium hydride	YES	EHS	NO
Calcium hypochlorite	YES	EHS	NO
Calcium lactate	NO	SEWER ACCEPTABLE	YES
Calcium nitrate	YES	EHS	NO
Calcium nitrite	YES	EHS	NO
Calcium oxide	YES	EHS	NO
Calcium phosphate	YES	EHS	NO
Calcium sulfate	NO	SEWER ACCPETABLE	YES
Carbon disulfide	YES	EHS	NO
Carbon Tetrachloride	YES	EHS	NO
Casamino acid	NO	SEWER ACCEPTABLE	YES
Chlorinated solvents	YES	EHS	NO
Chloroacetic acid	YES	EHS	NO
Chloroform	YES	EHS	NO
Chromic acid	YES	EHS	NO
Chromium salts and compounds	YES	EHS	NO
Chromium trioxide	YES	EHS	NO
Citric acid	NO	SEWER ACCEPTABLE	YES
Cobalt chloride	YES	EHS	NO
Cobalt Oxide	YES	EHS	NO
Collodion	YES	EHS	NO
Copper salts and compounds	YES	EHS	NO
Cresol	YES	EHS	NO
Crystal violet	YES	EHS	NO
Cyanides	YES	EHS	NO
Cyanogen bromide	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Cyclohexane	YES	EHS	NO
Cyclohexanone	YES	EHS	NO
Cyclohexene	YES	EHS	NO
Dextrose	NO	SEWER ACCEPTABLE	YES
3,3'-diaminobenzidine	YES	EHS	NO
o-Dianisidine	YES	EHS	NO
Diazomethane	YES	EHS	NO
Dibutyl phthalate	YES	EHS	NO
Dichlorodimethylsilane	YES	EHS	NO
Dichloromethane	YES	EHS	NO
Ethanolamine	YES	EHS	NO
Diethyl ether	YES	EHS	NO
Diethyl sulfate	YES	EHS	NO
Diethyl amine	YES	EHS	NO
3,3'-Dimethoxybenzidine	YES	EHS	NO
Dimethyl phthalate	YES	EHS	NO
Dimethyl sulfate	YES	EHS	NO
Dimethyl sulfoxide	YES	EHS	NO
Dimethylaminobenzene	YES	EHS	NO
N,N-Dimethyl aniline	YES	EHS	NO
Dimethylformamide	YES	EHS	NO
Dimethyl hydrazine	YES	EHS	NO
Drierite	NO	TRASH ACCEPTABLE	YES
Epichlorohydrin	YES	EHS	NO
Epoxy resins	YES	EHS	NO
Ethanol	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Ethanolamine	YES	EHS	NO
Ethidium bromide	YES	EHS	NO
2-Ethoxyethanol	YES	EHS	NO
Ethyl acetate	YES	EHS	NO
Ethyl methanesulfonate	YES	EHS	NO
Ethylamine	YES	EHS	NO
Ethyl dibromide	YES	EHS	NO
Ethylene glycol	NO	SEWER ACCEPTABLE	YES
Ethylene oxide	YES	EHS	NO
Ethylenediamine tetracetic acid (EDTA)	YES	EHS	NO
Ferric Chloride	YES	EHS	NO
Ferric oxide	NO	SEWER ACCEPTABLE	YES
Ferrous ammonium sulfate	YES	EHS	NO
Ferrous oxide	NO	SEWER ACCEPTABLE	YES
Ferrous sulfate	YES	EHS	NO
Formaldehyde, >/=37% solution	YES	EHS	NO
Formaldehyde, </=10% solution	YES	SEWER ACCEPTABLE	YES
Formamide	YES	EHS	NO
Formic acid	YES	EHS	NO
Galactose	NO	SEWER ACCEPTABLE	YES
Gasoline	YES	EHS	NO
Gelatin	NO	SEWER ACCEPTABLE	YES
Glucose	NO	SEWER ACCEPTABLE	YES
Gluteraldehyde	YES	EHS	NO
Glycerol	NO	SEWER ACCEPTABLE	YES

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
<b>Glycine</b>	NO	SEWER ACCEPTABLE	YES
<b>Graphite powder</b>	YES	EHS	NO
<b>Gum arabic</b>	NO	SEWER ACCEPTABLE	YES
<b>Gum guaiac</b>	NO	SEWER ACCEPTABLE	YES
<b>Hematoxylin</b>	NO	SEWER ACCEPTABLE	YES
<b>Heptane</b>	YES	EHS	NO
<b>Hexane</b>	YES	EHS	NO
<b>Hexanol</b>	YES	EHS	NO
<b>Hydrazine</b>	YES	EHS	NO
<b>Hydrobromic acid</b>	YES	EHS	NO
<b>Hydrochloric acid</b>	YES	ACID-BASE NEUTRALIZATION	NO
<b>Hydrofluoric acid</b>	YES	EHS	NO
<b>Hydrogen Peroxide</b>	YES	EHS	NO
<b>Hydroxylamine hydrochloride</b>	YES	EHS	NO
<b>Iodine</b>	YES	EHS	NO
<b>Isooctane</b>	YES	EHS	NO
<b>Isopropyl Ether</b>	YES	EHS	NO
<b>Kerosene</b>	YES	EHS	NO
<b>Lactic Acid</b>	YES	EHS	NO
<b>Lacquer thinner</b>	YES	EHS	NO
<b>Lactose</b>	NO	SEWER ACCEPTABLE	YES
<b>Laser dyes</b>	NO	EHS	NO
<b>Lead, salts and compounds</b>	YES	EHS	YES
<b>Lithium aluminum hydride</b>	YES	EHS	NO
<b>Lithium carbonate</b>	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Lithium chloride	YES	EHS	NO
Lithium sulfate	YES	EHS	NO
Lutidine	YES	EHS	NO
Magnesium borate	NO	SEWER ACCEPTABLE	YES
Magnesium carbonate	NO	TRASH ACCEPTABLE	YES
Magnesium chloride	NO	SEWER ACCEPTABLE	YES
Magnesium citrate	YES	EHS	NO
Magnesium lactate	NO	SEWER ACCEPTABLE	YES
Magnesium oxide	NO	SEWER ACCEPTABLE	YES
Magnesium perchlorate	YES	EHS	NO
Magnesium phosphate	NO	SEWER ACCEPTABLE	YES
Magnesium sulfate	NO	SEWER ACCEPTABLE	YES
Malt extract	NO	SEWER ACCEPTABLE	YES
Maltose	NO	SEWER ACCEPTABLE	YES
Manganese acetate	YES	EHS	NO
Manganese chloride	YES	EHS	NO
Manganese sulfate	NO	SEWER ACCEPTABLE	YES
Mercaptans, any	YES	EHS	NO
Mercury, salts & compounds	YES	EHS	NO
Mercury metal	YES	EHS	NO
Methanol	YES	EHS	NO
2-Methoxyethanol	YES	EHS	NO
Methyl acetate	YES	EHS	NO
Methyl ethyl ketone	YES	EHS	NO
Methyl isobutyl ketone	YES	EHS	NO
Methyl methacrylate	YES	EHS	NO



<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
<b>Methyl methanesulfonate</b>	YES	EHS	NO
<b>Methyl red</b>	YES	EHS	NO
<b>Methyl salicylate</b>	NO	SEWER/TRASH ACCEPTABLE	YES
<b>Methylamine</b>	YES	EHS	NO
<b>2-Methylbutane</b>	YES	EHS	NO
<b>Methylene blue</b>	NO	EHS	NO
<b>Methylene chloride</b>	YES	EHS	NO
<b>Mineral oil</b>	YES	EHS	NO
<b>Naphthalene</b>	YES	EHS	NO
<b>Nickel, salts and compounds</b>	YES	EHS	NO
<b>Nitric acid</b>	YES	EHS	NO
<b>Nitrobenzene</b>	YES	EHS	NO
<b>Nitromethane</b>	YES	EHS	NO
<b>Nitrosamides</b>	YES	EHS	NO
<b>Nitrosamines</b>	YES	EHS	NO
<b>Oil</b>	NO	EHS	YES
<b>Osmium tetroxide</b>	YES	EHS	NO
<b>Oxalic acid</b>	YES	EHS	NO
<b>Paint, acrylic</b>	YES	EHS	YES
<b>Paint, latex</b>	YES	EHS	YES
<b>Paint, oil based</b>	YES	EHS	NO
<b>Paint solvents</b>	YES	EHS	NO
<b>Paraffin</b>	NO	TRASH ACCEPTABLE	YES
<b>Paraformaldehyde solid</b>	YES	EHS	NO
<b>Paraformaldehyde solution &gt;5%</b>	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Paraformaldehyde solution <5%	NO	SEWER ACCEPTABLE	YES
Pentachlorophenol	YES	EHS	NO
Pentane	YES	EHS	NO
Pepsin	YES	EHS	NO
Peptone	NO	SEWER ACCEPTABLE	YES
Perchloric acid	YES	EHS	NO
Periodic acid	YES	EHS	NO
Petroleum ether	YES	EHS	NO
Petroleum jelly	NO	TRASH ACCEPTABLE	YES
Phenol	YES	EHS	NO
Phenyl hydrazine	YES	EHS	NO
Phorbol esters	YES	EHS	NO
Phosphomolybdic acid	YES	EHS	NO
Phosphoric acid	YES	EHS	NO
Phosphorus pentoxide	YES	EHS	NO
Phosphorus, red or yellow	YES	EHS	NO
Photographic fixer	YES	EHS	NO
Photographic developer	YES	EHS	NO
Picric acid	YES	EHS	NO
Potassium acetate	YES	EHS	NO
Potassium bicarbonate	NO	SEWER ACCEPTABLE	YES
Potassium bisulfate	YES	EHS	NO
Potassium bitartrate	NO	SEWER ACCEPTABLE	YES
Potassium bromide	YES	EHS	NO
Potassium carbonate	YES	EHS	NO
Potassium chloride	NO	SEWER ACCEPTABLE	YES

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Potassium citrate	NO	SEWER ACCEPTABLE	YES
Potassium chromate	YES	EHS	NO
Potassium cyanate	YES	EHS	NO
Potassium cyanide	YES	EHS	NO
Potassium bichromate	YES	EHS	NO
Potassium ferricyanide	YES	EHS	NO
Potassium ferrocyanide	YES	EHS	NO
Potassium fluoride	YES	EHS	NO
Potassium hydroxide	YES	EHS	NO
Potassium iodate	YES	EHS	NO
Potassium iodide	NO	SEWER ACCEPTABLE	YES
Potassium nitrate	YES	EHS	NO
Potassium nitrite	YES	EHS	NO
Potassium oxalate	YES	EHS	NO
Potassium permanganate	YES	EHS	NO
Potassium persulfate	YES	EHS	NO
Potassium phosphate	YES	EHS	NO
Potassium sodium tartrate	NO	SEWER ACCEPTABLE	YES
Potassium sulfate	YES	EHS	NO
Potassium sulfite	NO	SEWER ACCEPTABLE	YES
Potassium thiocyanate	YES	EHS	NO
Potassium metal	YES	EHS	NO
Propanethiol	YES	EHS	NO
Propanol	YES	EHS	NO
Propionaldehyde	YES	EHS	NO
Propionic acid	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Propylamine	YES	EHS	NO
Propylene glycol	NO	SEWER ACCEPTABLE	YES
Propylene oxide	YES	EHS	NO
Pumice	NO	TRASH ACCEPTABLE	YES
Pyridine	YES	EHS	NO
Selenium, salts and compounds	YES	EHS	NO
Silver nitrate	YES	EHS	NO
Silver, salts and compounds	YES	EHS	NO
Sodium acetate	NO	SEWER ACCEPTABLE	YES
Sodium ammonium phosphate	NO	SEWER ACCEPTABLE	YES
Sodium arsenate	YES	EHS	NO
Sodium azide	YES	EHS	NO
Sodium benzoate	YES	EHS	NO
Sodium bicarbonate	NO	SEWER ACCEPTABLE	YES
Sodium bisulfate	YES	EHS	NO
Sodium bisulfite	YES	EHS	NO
Sodium borate	YES	EHS	NO
Sodium bromide	YES	EHS	NO
Sodium cacodylate	YES	EHS	NO
Sodium carbonate	YES	EHS	NO
Sodium chloride	NO	SEWER ACCEPTABLE	YES
Sodium chromate	YES	EHS	NO
Sodium citrate	NO	SEWER ACCEPTABLE	YES
Sodium cyanate	YES	EHS	NO
Sodium cyanide	YES	EHS	NO
Sodium dichromate	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Sodium dodecyl sulfate (SDS)	NO	SEWER ACCEPTABLE	YES
Sodium fluoride	YES	EHS	NO
Sodium hydroxide	YES	ACID/BASE NEUTRALIZATION	NO
Sodium iodide	YES	EHS	NO
Sodium lactate	NO	SEWER ACCEPTABLE	YES
Sodium metal	YES	EHS	NO
Sodium methoxide	YES	EHS	NO
Sodium nitrate	YES	EHS	NO
Sodium nitrite	YES	EHS	NO
Sodium oxalate	YES	EHS	NO
Sodium perchlorate	YES	EHS	NO
Sodium phosphate	NO	SEWER ACCEPTABLE	YES
Sodium pyrophosphate	YES	EHS	NO
Sodium salicylate	YES	EHS	NO
Sodium succinate	YES	EHS	NO
Sodium sulfate	YES	EHS	NO
Sodium sulfite	NO	SEWER ACCEPTABLE	YES
Sodium sulfide	YES	EHS	NO
Sodium tartrate	NO	SEWER ACCEPTABLE	YES
Sodium thiocyanate	YES	EHS	NO
Sodium thiosulfate	YES	EHS	NO
Sodium tungstate	YES	EHS	NO
Stannic chloride	YES	EHS	NO
Stannic oxide	YES	EHS	NO
Stannous oxide	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
Starch	NO	TRASH ACCEPTABLE	YES
Strontium carbonate	NO	SEWER ACCEPTABLE	YES
Strontium phosphate	NO	SEWER ACCEPTABLE	YES
Strontium sulfate	NO	SEWER ACCEPTABLE	YES
Sucrose	NO	SEWER ACCEPTABLE	YES
Sugars	NO	SEWER ACCEPTABLE	YES
Sugar alcohols	NO	SEWER ACCEPTABLE	YES
Sulfuric acid	YES	EHS	NO
Talcum powder	NO	TRASH ACCEPTABLE	YES
Tetrachloroethylene	YES	EHS	NO
Tetrahydrofuran	YES	EHS	NO
Tetramethylethyldiamine	YES	EHS	NO
Thallium, salts and compounds	YES	EHS	NO
Thionyl chloride	YES	EHS	NO
Thymol	YES	EHS	NO
Titanium dioxide	NO	TRASH ACCEPTABLE	YES
Toluene	YES	EHS	NO
o-Toluidine	YES	EHS	NO
Trichloroacetic acid	YES	EHS	NO
1,1,1-Trichloroethane	YES	EHS	NO
Trichloroethylene	YES	EHS	NO
Trichlorosilane	YES	EHS	NO
Triethanolamine	YES	EHS	NO
Triethylamine	YES	EHS	NO
Trifluoroacetic acid	YES	EHS	NO
Trimethylchlorosilane	YES	EHS	NO

<b>CHEMICAL NAME, % CONCENTRATION</b>	<b>HAZARD?</b>	<b>DISPOSAL OPTION</b>	<b>CCI TO TRASH?</b>
<b>Trypticase</b>	YES	EHS	NO
<b>Trizma base</b>	YES	EHS	NO
<b>Uracil mustard</b>	YES	EHS	NO
<b>Urea</b>	NO	SEWER ACCEPTABLE	YES
<b>Valeric acid</b>	YES	EHS	NO
<b>Xylene</b>	YES	EHS	NO
<b>Yeast extract</b>	NO	SEWER ACCEPTABLE	YES
<b>Zinc cyanide</b>	YES	EHS	NO
<b>Zinc oxide</b>	NO	TRASH ACCEPTABLE	YES